

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651127

Luminaire Tested: **GALN-SA9C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44090.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

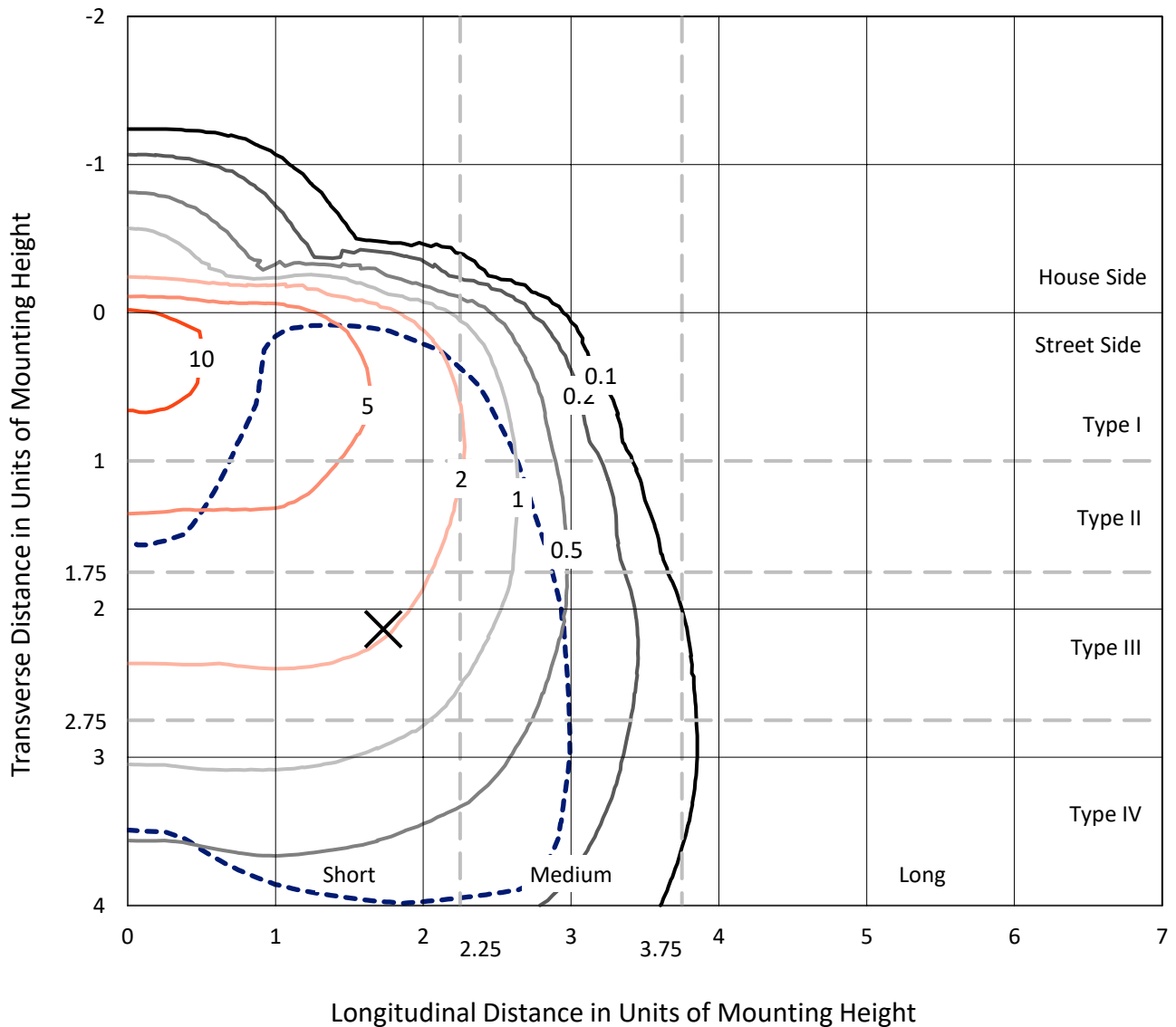
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

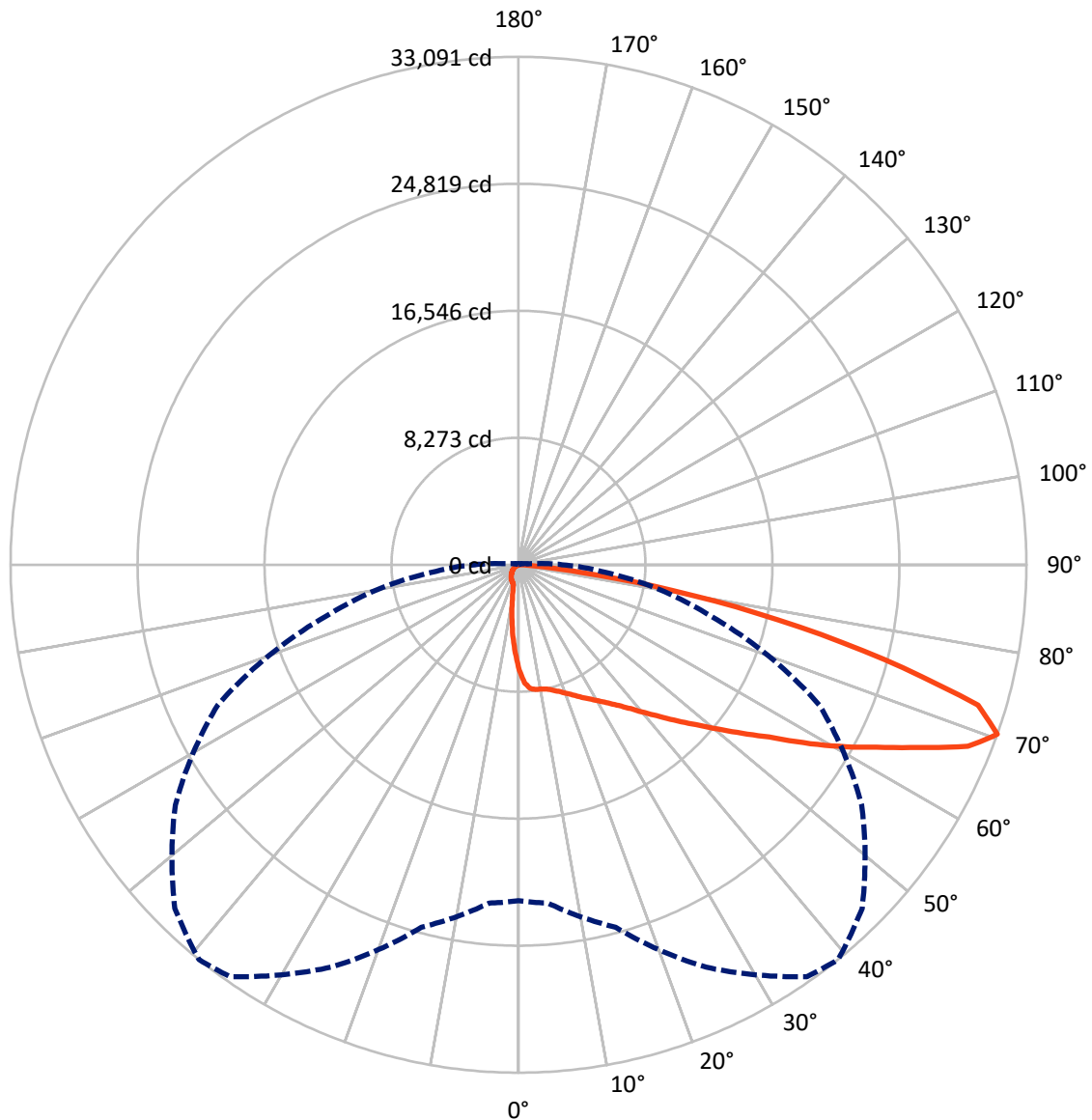
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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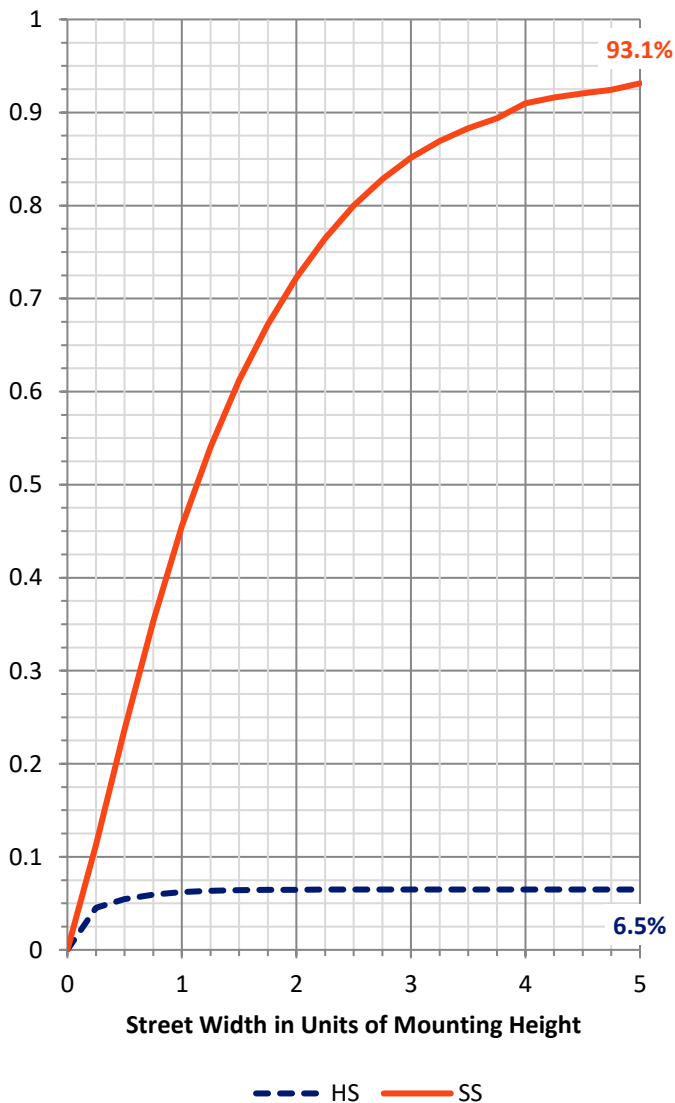
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2874.9	0.0	2874.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	41215.4	0.0	41215.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	44090.3	0.0	44090.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.8	1.3
10°-20°	1524.9	3.5
20°-30°	2554.6	5.8
30°-40°	3961.9	9.0
40°-50°	6278.3	14.2
50°-60°	9203.1	20.9
60°-70°	11796.2	26.8
70°-80°	7412.3	16.8
80°-90°	772.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44090.3	100.0
0°-180°	44090.3	100.0

Coefficient of Utilization



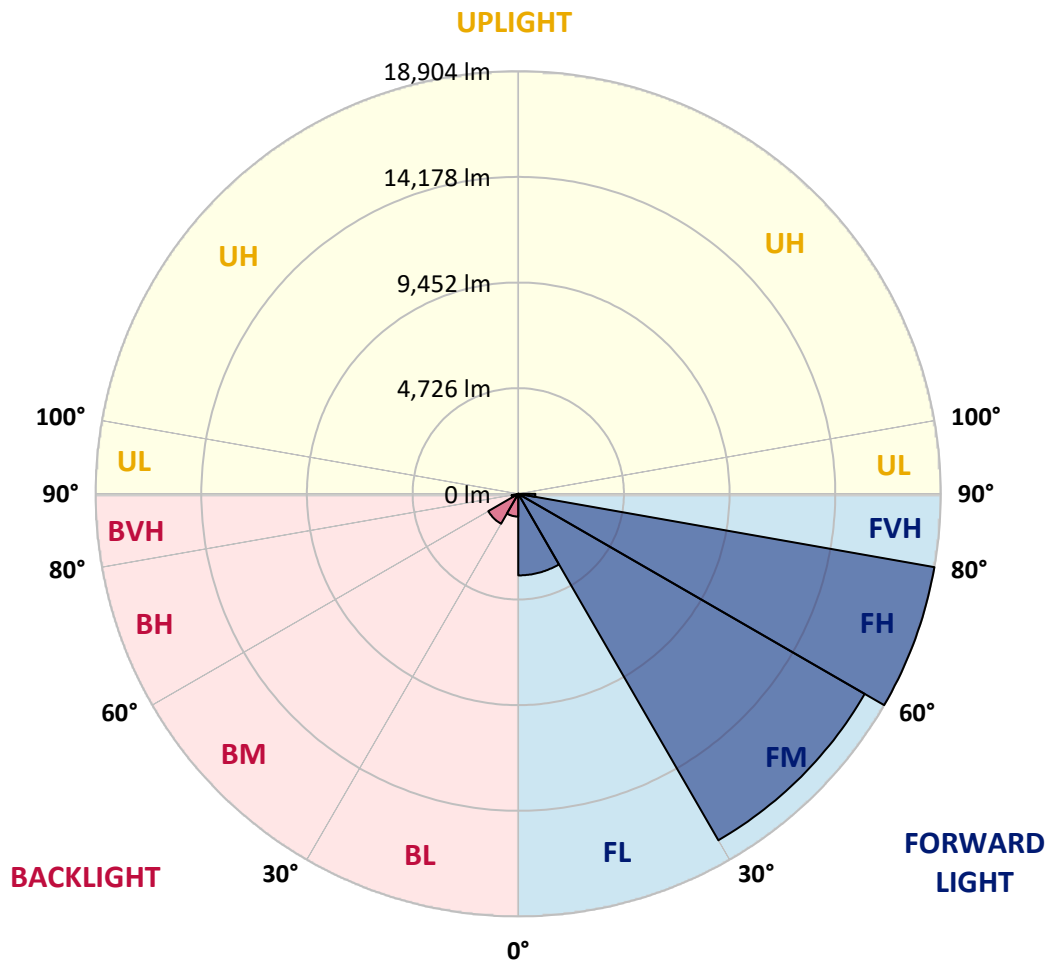
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3648.2	8.3			
FM (30°-60°)	17896.1	40.6			
FH (60°-80°)	18904.5	42.9			G5
FVH (80°-90°)	766.5	1.7			G5
BL (0°-30°)	1018.0	2.3	B3/2500		
BM (30°-60°)	1547.2	3.5	B2/2500		
BH (60°-80°)	304.0	0.7	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6
2.5°	7949.1	7922.5	7887.0	7845.4	7726.9	7706.3	7635.1	7484.0	7303.2	7155.1	6950.7
5°	8325.4	8340.3	8313.6	8239.5	8153.6	8103.2	8014.3	7780.3	7546.2	7247.0	6912.2
7.5°	8411.3	8440.9	8408.4	8337.3	8254.3	8201.0	8129.9	7928.4	7655.9	7315.1	6855.9
10°	8402.4	8438.0	8417.3	8352.1	8283.9	8233.6	8156.5	7996.6	7777.3	7418.8	6873.7
12.5°	8387.6	8435.1	8432.1	8399.5	8343.2	8304.7	8257.3	8115.1	7910.6	7569.9	6971.5
15°	8346.2	8405.5	8458.8	8485.4	8488.4	8488.4	8429.1	8278.0	8082.5	7768.4	7098.9
17.5°	8363.9	8432.1	8565.4	8642.5	8695.8	8689.9	8627.7	8464.7	8248.4	7972.8	7232.2
20°	8473.6	8565.4	8752.0	8906.1	8959.5	8941.7	8858.8	8669.1	8423.2	8147.7	7362.5
22.5°	8743.2	8826.1	9060.2	9240.9	9279.4	9232.1	9113.5	8855.8	8633.5	8337.3	7519.5
25°	9146.1	9243.9	9460.2	9596.5	9596.5	9569.8	9403.9	9101.7	8870.6	8601.0	7724.0
27.5°	9635.0	9717.9	9931.3	10052.7	9981.7	9904.6	9738.7	9374.3	9152.0	8932.8	7969.9
30°	10129.8	10183.1	10408.3	10461.6	10387.5	10289.8	10112.0	9747.6	9552.0	9383.1	8325.4
32.5°	10597.9	10713.4	10900.1	10888.3	10787.5	10740.1	10577.2	10189.1	10079.4	10061.6	8823.2
35°	11066.0	11154.9	11320.8	11362.3	11273.4	11264.5	11146.0	10858.7	10861.6	10977.2	9599.4
37.5°	11469.0	11548.9	11744.5	11836.3	11854.1	11898.6	11851.1	11661.6	11931.2	12248.2	10627.5
40°	11806.7	11919.3	12168.2	12328.1	12511.9	12674.8	12683.7	12725.2	13267.4	13812.5	11969.7
42.5°	12070.4	12227.5	12588.8	12885.1	13305.9	13513.3	13679.2	13907.4	14819.8	15634.6	13551.8
45°	12414.1	12594.8	13045.2	13510.3	14168.1	14508.8	14739.9	15350.2	16644.9	17755.9	15175.4
47.5°	12982.9	13077.7	13537.0	14215.4	15080.6	15566.5	16016.8	16941.2	18603.3	19598.8	16526.4
50°	13714.8	13776.9	14123.6	15065.8	16185.7	16825.6	17646.4	18733.7	20635.8	21127.6	17290.8
52.5°	14523.6	14544.3	14805.0	16002.0	17424.2	18230.0	19148.5	20490.6	22292.1	22218.0	17797.5
55°	15462.8	15433.2	15655.4	17018.2	18890.7	19812.2	20881.7	22289.0	23729.0	22991.3	18087.8
57.5°	16538.3	16458.3	16674.6	18366.3	20769.2	21871.3	22958.6	23841.6	24843.0	23640.1	18227.1
60°	17664.1	17504.2	17761.9	19880.3	22982.3	24028.2	24931.9	25168.9	26016.3	24155.6	17987.1
62.5°	18561.9	18564.8	19044.8	21492.1	25257.8	26173.3	26653.2	26866.6	27026.5	24043.0	16725.0
65°	19963.2	20010.7	20778.0	23729.0	27891.7	28685.8	29014.6	28321.3	27071.0	22644.6	14828.8
67.5°	21409.1	21560.2	22964.6	26810.2	30934.5	31574.4	31150.7	28602.7	25862.2	19453.7	11243.7
70°	21880.2	22129.1	24443.0	28931.7	32759.6	33091.4	31657.4	27290.3	21619.5	13006.7	5658.9
72.5°	20049.2	20452.1	23592.7	28158.4	31595.2	31307.8	28324.3	22887.6	13744.4	4938.9	1727.3
75°	14138.4	14316.2	19607.7	23358.6	25411.8	24597.1	21545.4	14754.7	5653.0	1386.6	592.6
77.5°	7300.3	7214.4	11661.6	15498.4	18123.4	17279.0	14108.8	7638.0	2142.1	577.8	367.3
80°	3774.6	3836.8	5045.7	8121.0	11063.0	10180.1	7522.5	3540.5	1140.6	320.0	281.5
82.5°	2115.5	1985.1	2900.6	3546.5	5173.0	4056.1	2885.7	2506.5	497.8	192.6	266.7
85°	385.2	402.9	1591.0	1916.9	1795.5	1140.6	930.3	1674.0	145.2	106.6	186.6
87.5°	5.9	5.9	308.1	551.1	349.6	160.0	293.3	240.0	29.6	41.5	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6	6879.6
2.5°	6847.0	6734.4	6524.1	6316.7	6053.0	5836.7	5691.6	5540.4	5386.4	5398.2	5433.8
5°	6728.5	6533.0	6118.2	5679.7	5258.9	4879.7	4506.4	4171.6	4035.3	3910.9	3916.8
7.5°	6610.0	6334.4	5727.0	5039.7	4402.7	3756.8	3288.7	2903.6	2699.1	2545.0	2500.6
10°	6556.7	6192.2	5368.6	4423.4	3519.8	2814.7	2213.2	1899.1	1656.2	1579.1	1599.9
12.5°	6580.3	6121.1	5045.7	3866.4	2790.9	1961.4	1540.6	1380.7	1327.4	1318.4	1312.5
15°	6624.8	6070.8	4728.6	3250.2	2050.3	1457.7	1294.7	1265.1	1259.1	1253.3	1256.2
17.5°	6684.0	6026.3	4390.9	2672.4	1573.3	1274.0	1226.6	1211.8	1208.9	1208.9	1208.9
20°	6743.3	5976.0	4014.6	2156.9	1312.5	1202.9	1173.3	1164.4	1161.4	1161.4	1158.5
22.5°	6811.4	5931.5	3632.4	1694.7	1208.9	1152.5	1125.8	1120.0	1116.9	1114.0	1114.0
25°	6909.2	5875.2	3226.5	1386.6	1143.7	1105.2	1078.4	1072.5	1069.6	1057.7	1060.7
27.5°	7039.6	5833.8	2808.7	1197.0	1084.4	1045.9	1028.1	1019.2	1013.2	1004.4	1007.3
30°	7217.4	5798.2	2364.3	1093.3	1016.3	983.6	965.9	959.9	954.0	945.1	945.1
32.5°	7525.5	5813.0	1896.2	1010.3	954.0	915.5	897.7	891.8	885.9	877.0	877.0
35°	7987.6	5898.9	1516.9	939.2	879.9	841.4	823.7	823.7	814.8	802.9	800.0
37.5°	8743.2	6118.2	1217.7	871.0	808.9	773.3	752.5	746.6	737.7	720.0	717.0
40°	9635.0	6458.9	1025.1	802.9	743.7	708.1	690.3	672.5	648.8	631.1	628.1
42.5°	10755.0	6808.5	888.9	734.8	681.5	648.8	628.1	598.5	563.0	539.2	536.3
45°	11922.3	7128.5	797.0	672.5	622.2	595.5	571.8	524.4	480.0	450.4	447.4
47.5°	12793.3	7187.7	722.9	613.3	571.8	545.1	512.6	453.3	394.1	367.3	358.5
50°	13205.1	6900.3	645.9	554.1	521.4	491.8	450.4	382.2	317.1	284.4	278.5
52.5°	13350.3	6402.6	583.7	500.7	471.0	435.6	385.2	308.1	248.9	216.3	213.4
55°	13291.1	5774.5	527.4	450.4	411.8	370.4	320.0	245.9	183.7	157.0	151.1
57.5°	12980.0	4974.5	471.0	400.0	352.5	311.1	254.8	183.7	124.5	100.8	97.8
60°	12141.5	3884.2	414.8	343.7	299.2	254.8	201.5	130.4	77.0	56.3	56.3
62.5°	10725.3	2882.8	361.5	287.4	251.8	204.4	142.2	82.9	41.5	29.6	26.7
65°	8962.5	2127.3	302.2	243.0	210.3	160.0	100.8	50.4	20.8	8.9	5.9
67.5°	6254.4	1312.5	251.8	198.5	171.8	115.6	62.2	20.8	8.9	0.0	0.0
70°	2841.3	625.1	192.6	151.1	130.4	82.9	32.6	11.9	5.9	0.0	0.0
72.5°	882.9	328.8	136.3	109.6	88.9	53.3	17.7	8.9	5.9	0.0	0.0
75°	408.9	210.3	86.0	59.3	50.4	26.7	11.9	5.9	2.9	0.0	0.0
77.5°	305.2	163.0	50.4	32.6	26.7	17.7	8.9	5.9	2.9	0.0	0.0
80°	266.7	82.9	29.6	20.8	14.8	11.9	5.9	2.9	0.0	0.0	0.0
82.5°	240.0	41.5	17.7	11.9	8.9	5.9	2.9	2.9	0.0	0.0	0.0
85°	130.4	23.7	11.9	8.9	5.9	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	23.7	11.9	8.9	5.9	5.9	2.9	2.9	2.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)